

FOOT 20" 092E860

# Oughta Cost System

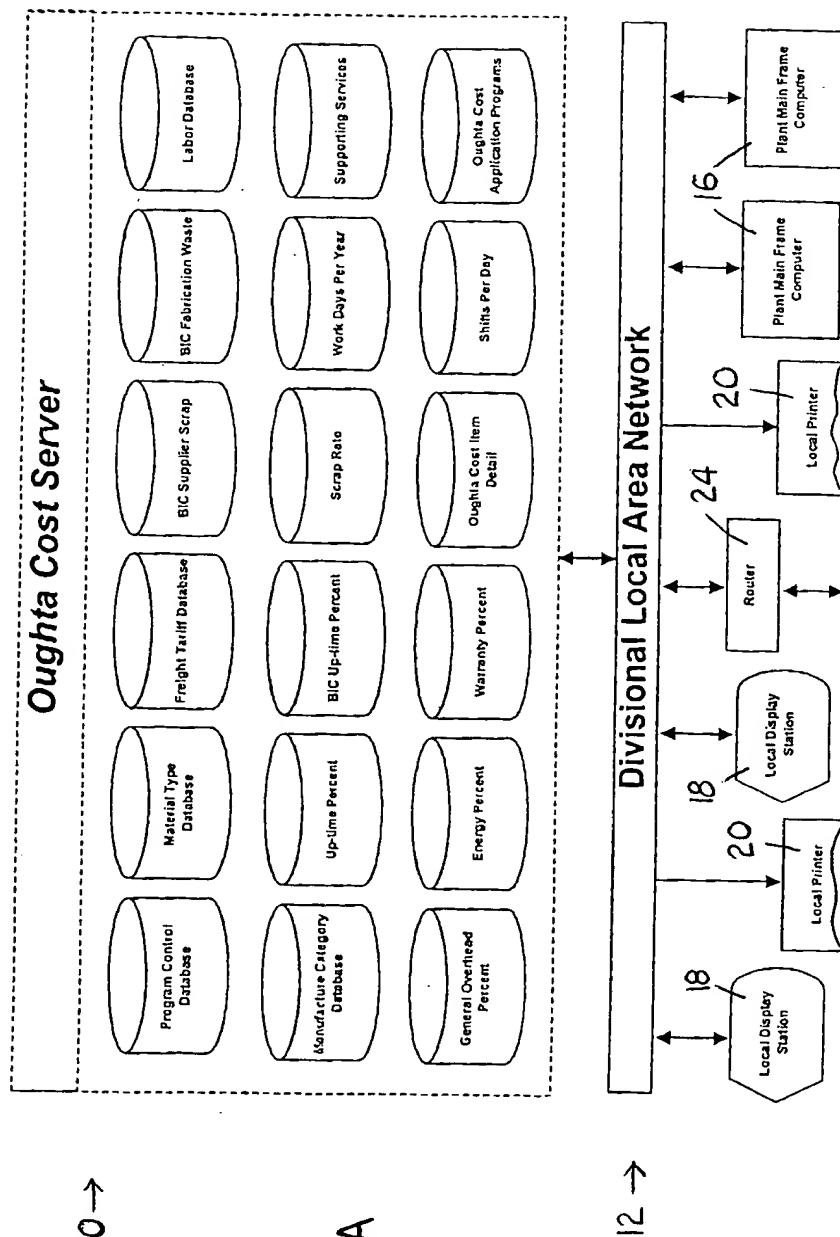


Fig 1A

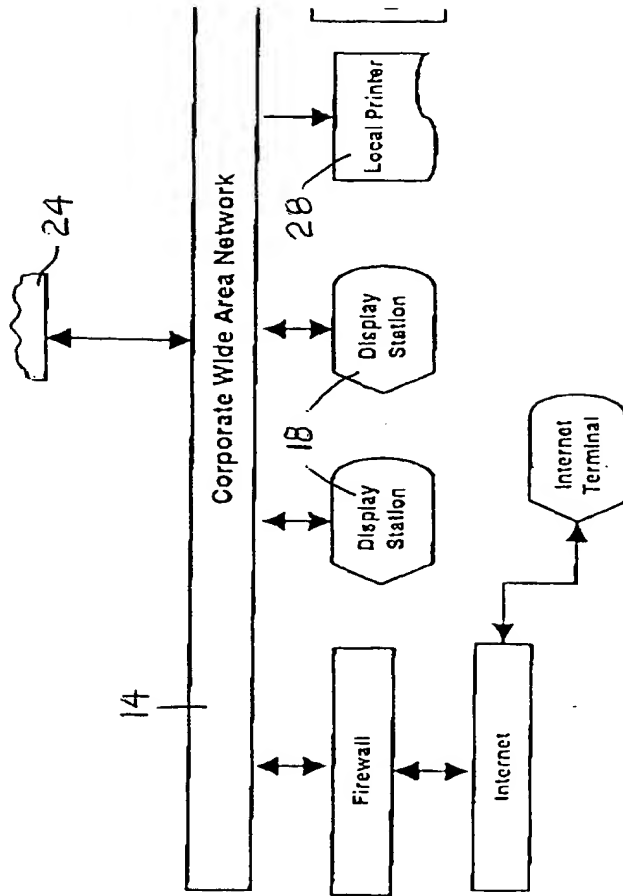


Fig 1B

# Oughta Cost System

Oughta Cost Search

## Existing Oughta Cost Studies

Program #	Description	Status	Owner
01122000001	New Crankshaft	Public	Ray Goss
10292000002	Machine New Head	Private	Bill Warren
01222001004	New Core Assembly Process	Public	Gary Denklaui

Name of New Oughta Cost Study

Open  
Study  
Reports  
Exit

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FIG 2

FOOT 20" E092E860

Material		Program # 02010100001   Component: Shaft   Component # 100   Status: Public	
<div>Cost Components</div> <ul style="list-style-type: none"><li>-Material</li><li>-Capital</li><li>-Labor</li><li>-Manufacturing</li><li>-Overhead</li><li>Reports</li><li>Home</li><li>Exit</li></ul>	Material Type	<div>Steel Forging</div> <div>Fine Blanked Steel</div> <div>Copper</div> <div>Tin</div> <div>Plastic</div> <div>Die Cast Aluminum</div> <div>Brass Bar Stock</div> <div>Plastic</div> <div>Bronze Bar Stock</div> <div>Nitralloy Steel Bar</div>	
	Supplier Scrap:		
	Fabrication Waste:		
	Freight		
	Origin	Light Needed	Returnable Containers
	Destination	Material Cost	Dunnage
	Mode	Post	
		Rates/CWT	
	Materials Table		
	Material Code	Unit of Measure	Category
Comments			

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FIG 3

FOST 70" E092E860

Material

Program # 02010100001 | Component: Shaft | Component # 100 | Status: Public

Material Type

Supplier Scrap

Fabrication Waste:

5.00%

5.10%

5.20%

5.30%

5.40%

5.50%

5.60%

5.70%

5.80%

5.90%

Freight

Origin

Destination

Mode

Light Needed

Material Cost

Waste

Returnable Containers

Dunnage

Cost Components

-Material

-Capital

-Labor

-Manufacturing

-Overhead

Reports

Home

Exit

Materials Table

Material Code	Unit of Measure	Category	Description
1-112-A	Ton	Forging	Steel Forging

Comments

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FIG 4

TEST 20" E092E860

Material

Program # 02010100001 | Component: Shaft | Component # 100 | Status: Public

Cost Components

-Material

-Capital

-Labor

-Manufacturing

-Overhead

Reports

Home

Exit

Material Type

Supplier Scrap:

Fabrication Waste:

Freight

Origin

Destination

Mode

Steel Forging

5.00%

5.00%

5.10%

5.20%

5.30%

5.40%

5.50%

0%

Light Needed

erial Cost

ost

Rates/CWT

Returnable Containers

Dunnage

Materials Table

Material Code	Unit of Measure	Category	Description
1-112-A	Ton	Forging	Steel Forging

Comments

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FIG 5

PORT 20" E092E860

Material

Program # 02010100001 | Component: Shaft | Component # 100 | Status: Public

Material Type

Steel Forging

Supplier Scrap:

5.00%

Fabrication Waste:

5.00%

Cost Components

-Material

-Capital

-Labor

-Manufacturing

-Overhead

Reports

Home

Exit

Freight

Origin

New York

Total Weight Needed

111

Returnable Containers

Destination

California

Total Material Cost

\$

Dunnage

Mode

Truck Load  
Less Than Truck Load  
Rail  
Boat

Freight Cost

\$

Rates/CWT

\$

Materials Table

Material Code	Unit of Measure	Category	Description
1-112-A	Ton	Forging	Steel Forging

Comments

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FIG 6

Material		Program # 02010100001   Component: Shaft   Component # 100   Status: Public															
<div> <div>Cost Components</div> <div> <div>-Material</div> <div>-Capital</div> <div>-Labor</div> <div>-Manufacturing</div> <div>-Overhead</div> <div>Reports</div> <div>Home</div> <div>Exit</div> </div> </div>	Material Type	Steel Forging															
	Supplier Scrap:	5.00%															
	Fabrication Waste:	5.00%															
	<div> <div>Freight</div> <div> <div>Origin</div> <div>New York</div> <div>Total Weight Needed</div> <div>111</div> <div>Returnable Containers</div> <div></div> </div> <div> <div>Destination</div> <div>California</div> <div>Total Material Cost</div> <div>\$51.06</div> <div>Dunnage</div> <div>Y</div> </div> <div> <div>Mode</div> <div>Truck Load</div> <div>Freight Cost</div> <div>\$1.11</div> <div>Rates/CWT</div> <div>\$1.00</div> </div> </div>																
<div>Materials Table</div> <table border="1"> <thead> <tr> <th>Material Code</th> <th>Unit of Measure</th> <th>Category</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1-112-A</td> <td>Ton</td> <td>Forging</td> <td>Steel Forging</td> </tr> <tr> <td colspan="4">Crankshaft for 2003 model year V8</td> </tr> </tbody> </table>						Material Code	Unit of Measure	Category	Description	1-112-A	Ton	Forging	Steel Forging	Crankshaft for 2003 model year V8			
Material Code	Unit of Measure	Category	Description														
1-112-A	Ton	Forging	Steel Forging														
Crankshaft for 2003 model year V8																	
<div>Comments</div> <div>This study has only one component.</div>																	

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FIG 7



## Labor

## Cost Components

## -Material

-Capital

-Labor-

## -Manufacturing

**-Overhead**

Reports

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Life & Exist

Supporting Services:

Region: North

Machining Type:	Transfer Line	Skill Level:	Standard Machining
-----------------	---------------	--------------	--------------------

Additional Labor \$: 0.00

Employee Type	Number Required	Operation # (OP #)	Default Labor Rate	Employee Benefit (% of Labor Rate)	Employee Benefits
<b><u>DIRECT LABOR</u></b>					
Machine Operators	3	10	\$11.00	50 %	\$5.50
Machine Operators	3	20	\$11.00	%	\$3.50
Assembly Test	0		\$9.00	%	\$3.50
<b><u>INDIRECT LABOR</u></b>					
Material Handling	5	10	\$8.00	%	\$4.00
Shipping	2	30	\$11.00	%	\$4.00
Receiving	2	05	\$8.00	%	\$4.00
Line Stocking	1	10	\$7.00	%	\$3.50
Material Scheduler	25		\$6.00	%	\$3.00
Inspection	25	20	\$8.00	%	\$4.00
Quality	25	20	\$9.00	%	\$4.50
Supervisor	1		\$14.00	%	\$4.00

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TD9T20" E092E360

Capital

Cost Components

-Material

-Capital

-Labor

Manufacturing

-Overhead

Reports

Home

Program # 01122000003 | Component: Shaft | Component # 123456 | Status: Public

General Capital

Building Expansion

Qty 1

Item Category Building

Depreciation 30 yrs

Capital \$ \$200,000

Add General Item

Machining Capital

Qty	Op #	Description	Category	Capital \$	Capital Depreciation	Tooling \$	Tooling Depreciation
1	10	Rough Machining	Machine Tool	\$25,000	5 yrs		
	10	Cutters	Tooling			\$800	1 yrs

Add Machining Item

Comments

Cancel

Help

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FIG 9

POST 20" E092E860

Manufacturing

Program # 01122000001

Component: Shaft

Component # 123456

Status: Public

Cost Components

-Material

-Capital

-Labor

-Manufacturing

-Overhead

Reports

Home

Transfer Line

Uptime Current

Uptime World Class

Scrap Rate

Volume

Work Days per Year

Work Shifts per Day

Work Hours per Shift

Component

Manufacturing Utilization

50%

51%

52%

53%

54%

100%

per

Manufacturing Time

Manufacturing Time

Requires Manpower	Equipment #	Op #	Unit of Measure	Time	Calculated Capacity
<input type="checkbox"/> Yes <input type="checkbox"/> No					
<input type="checkbox"/> Yes <input type="checkbox"/> No					
<input type="checkbox"/> Yes <input type="checkbox"/> No					

Add Manufacturing Time Element

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D5045

FIG 10

Manufacturing

Program # 01122000001

Component: Shaft

Component # 123456

Status: Public

Cost Components

-Material

-Capital

-Labor

-Manufacturing

-Overhead

Reports

Home

Manufacturing Category

Uptime Current

Uptime World Class

Scrap Rate

Volume

Work Days per Year

Work Shifts per Day

Work Hours per Shift

Component

Manufacturing Utilization

Transfer Line

50%

70%

75%

80%

85%

90%

95%

100%

per

Manufacturing Time

Manufacturing Time

Requires Manpower	Equipment #	Op #	Unit of Measure	Time	Calculated Capacity
<input type="checkbox"/> Yes <input type="checkbox"/> No					
<input type="checkbox"/> Yes <input type="checkbox"/> No					
<input type="checkbox"/> Yes <input type="checkbox"/> No					

Add Manufacturing Time Element

FIG II

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Manufacturing

Program # 01122000001 | Component: Shaft | Component # 123456 | Status: Public

Cost Components

-Material

-Capital

-Labor

-Manufacturing

-Overhead

Reports

Home

Transfer Line

50%

90%

5.00%

5.10%

5.20%

5.30%

5.40%

5.50%

5.60%

5.70%

5.80%

5.90%

Uptime Current

Uptime World Class

Scrap Rate

Volume

Work Days per Year

Work Shifts per Day

Work Hours per Shift

Component

Manufacturing Utilization

per

Manufacturing Time

Manufacturing Time

Requires Manpower	Equipment #	Op #	Unit of Measure	Time	Calculated Capacity
<input type="checkbox"/> Yes <input type="checkbox"/> No					
<input type="checkbox"/> Yes <input type="checkbox"/> No					
<input type="checkbox"/> Yes <input type="checkbox"/> No					

Add Manufacturing Time Element

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FIG 12

<div style="display: flex; justify-content: space-between;"> <span>Manufacturing</span> <span>Program # 01122000001   Component: Shaft   Component # 123456   Status: Public</span> </div>																									
<div style="display: flex; justify-content: space-between;"> <div> <div style="display: flex; align-items: center;"> <div style="width: 15px; height: 15px; background-color: black; margin-right: 5px;"></div> <div>Cost Components</div> </div> <div style="margin-top: 5px;"> <div>-Material</div> <div>-Capital</div> <div>-Labor</div> <div>-Manufacturing</div> <div>-Overhead</div> </div> <div>Reports</div> <div>Home</div> </div> <div style="width: 65%;"> <div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> <div>Manufacturing Category</div> <div>Transfer Line</div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> <div>Uptime Current</div> <div>50%</div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> <div>Uptime World Class</div> <div>90%</div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> <div>Scrap Rate</div> <div>0%</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Volume</div> <div>20,000 per Year</div> </div> </div> </div>	<div style="margin-bottom: 20px;"> <div style="text-align: center; margin-bottom: 10px;"><u>Available Manufacturing Time</u></div> <div style="display: flex; justify-content: space-between;"> <div>Work Days per Year</div> <div>240</div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> <div>Work Shifts per Day</div> <div>2</div> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> <div>Work Hours per Shift</div> <div>8</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Component</div> <div></div> </div> </div> <div> <div style="text-align: center; margin-bottom: 10px;"><u>Manufacturing Utilization</u></div> <div style="display: flex; justify-content: space-between;"> <div>Manufacturing Utilization</div> <div></div> </div> </div>																								
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 30%;"> <div style="text-align: center; margin-bottom: 10px;"><u>Manufacturing Time</u></div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Requires Manpower</th> <th style="width: 20%;">Equipment #</th> <th style="width: 10%;">Op #</th> <th style="width: 10%;">Unit of Measure</th> <th style="width: 10%;">Time</th> <th style="width: 30%;">Calculated Capacity</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> <td>12345</td> <td>05</td> <td>sec</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td></td> <td></td> <td>min</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td></td> <td></td> <td>hour</td> <td></td> <td></td> </tr> </tbody> </table> </div> <div style="width: 65%; text-align: center;"> <div style="margin-bottom: 10px;"><u>Add Manufacturing Time Element</u></div> <div style="display: flex; justify-content: space-between;"> <div> <div style="width: 15px; height: 15px; background-color: black; margin-right: 5px;"></div> <div>Cost Components</div> </div> <div style="margin-top: 5px;"> <div>-Material</div> <div>-Capital</div> <div>-Labor</div> <div>-Manufacturing</div> <div>-Overhead</div> </div> <div>Reports</div> <div>Home</div> </div> </div> </div>		Requires Manpower	Equipment #	Op #	Unit of Measure	Time	Calculated Capacity	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12345	05	sec			<input type="checkbox"/> Yes <input type="checkbox"/> No			min			<input type="checkbox"/> Yes <input type="checkbox"/> No			hour		
Requires Manpower	Equipment #	Op #	Unit of Measure	Time	Calculated Capacity																				
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12345	05	sec																						
<input type="checkbox"/> Yes <input type="checkbox"/> No			min																						
<input type="checkbox"/> Yes <input type="checkbox"/> No			hour																						

FIG 13

Manufacturing		Program # 01122000001   Component: Shaft   Component # 123456   Status: Public	
<input checked="" type="checkbox"/> x		Transfer Line	>
Cost Components		Manufacturing Category	>
-Material		Uptime Current	50% >
-Capital		Uptime World Class	90% >
-Labor		Scrap Rate	0% >
-Overhead		Volume	20,000 per Year >
Reports		<u>Available Manufacturing Time</u>	
Time		Work Days per Year	240
		Work Shifts per Day	2
		Work Hours per Shift	8
		Component	50%
		Manufacturing Utilization	
<u>Manufacturing Time</u>			
Requires Manpower	Equipment #	Op #	Unit of Measure
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	123456	05	sec >
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	246810	10	sec >
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	357159	20	min >
		Time	Calculated Capacity
		80	86,400
		80	86,400
		1.3	86,400
<u>Add Manufacturing Time Element</u>			

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FILE 14

OverHead

Cost Components  
-Material  
-Capital  
-Labor  
-Manufacturing  
-Overhead  
Reports  
Exit

Program # 01122000001 | Component: Shaft | Component # 123456 | Status: Public

Depreciation

Asset Class	# of Items	Total Capital	Depreciation Years	Annual Depreciation	Component Rate	Annual Depreciation Contributed by Component
Building	1	\$200,000	30	\$6,667	50 %	\$3,334
Tooling	10	\$800	1	\$800	100 %	\$800
Machine Tools	1	\$25,000	5	\$5,000	70 %	\$3,500
TOTALS		\$225,800		\$12,467		\$7,634

Startup Costs

Engineering Support

Warranty Cost (% of Sales)

Additional Expenses

Cost Category	Cost Desc	Cost (\$)	Occurrence
	0.1%		
	0.2%		
	0.3%		
	0.4%		
	0.5%		
Add Cost Category			

Comments

FIG 15

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OverHead

Cost Components

-Material

-Capital

-Labor

-Manufacturing

-Overhead

Reports

Exit

Program # 01122000001 | Component: Shaft | Component # 123456 | Status: Public

Depreciation

Asset Class	# of Items	Total Capital	Depreciation Years	Annual Depreciation	Component Rate	Annual Depreciation Contributed by Component
Building	1	\$200,000	30	\$6,667	50 %	\$3,334
Tooling	10	\$800	1	\$800	100 %	\$800
Machine Tools	1	\$25,000	5	\$5,000	70 %	\$3,500
TOTALS		\$225,800		\$12,467		\$7,634

Startup Costs

\$20,000

Engineering Support

\$10,000

Warranty Cost (% of Sales)

0.1% ▾

Additional Expenses

Cost Category	Cost Description	Cost (\$)	Occurrence
Pershaible Tooling			▾
MRO			▾
General Overhead			▾
Energy			▾
Other			▾

Comments

FIG 16

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Reports

Cost Components

-Material

-Capital

-Labor

-Manufacturing

-Overhead

Reports

Home

Exit

☒ Standard Report Package

☒ Material

☐ Labor

☐ Capital

☐ Manufacturing

☐ Overhead

☒ Summary

▼

1201200001

10292000002

01222001004

02102001001

Select

Program:

Program Description:

Component Control #:

Component:

Selected Items:

▼

Cancel

Help

FIG 17

Reports

Cost Components

-Material

-Capital

-Labor

-Manufacturing

-Overhead

Reports

Home

Exit

☒ Standard Report Package

☒ Material

☐ Labor

☐ Capital

☒ Manufacturing

☐ Overhead

☒ Summary

Print Preview

Print

Export to Access

Export to Excel

Inquiries

Select

Program:

Program Description:

Component Control #:

Component:

Selected Items:

12012000001

New Crankshaft

123456

Shaft

01122000001 New Crankshaft

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FIG 18